

# Technical Data Sheet

## ISOSOUND®

ISOSOUND is a new sound absorption and sound insulation product of high performance, specially designed to meet the most demanding requirements for sound isolation. The material is composed of open - cell flexible elastomeric foam based on synthetic rubber.



Properties	Value 150 kgr/m <sup>3</sup>	Value 250 kgr/m <sup>3</sup>	TEST Method	Lab/ TEST Reports
Density (kgr/m <sup>3</sup> )	≥ 100	250 (-30/ +50)	EN 13470, EN 1602	self monitoring
Weighted Sound Reduction Index - Rw(C;Ctr)	40(-2; -7) dB	43(-1; -5) dB	DIN EN ISO 140 - 3: 2005 EN ISO 717 - 1: 2006	Aristotle University of Thessaloniki
Sound Absorption	Absorption coefficient up to 0.98		EN 354	self monitoring
Thermal Conductivity (λ)	20°C - 0.044 W/ mk	20°C - 0.048 W/ mk	EN 12667	self monitoring
Operating Temperatures (°C)	-40°C to +85°C		Annex B EN 14304 EN 14706	self monitoring
Fire Rating (FR)	Euroclass E, does not spread flames, self - extinguishing, does not drip		Classification according EN 13501-1	self monitoring
Limiting Oxygen Index (LOI)	32%		EN ISO 4589-1	self monitoring
Tensile Strength (Kpa)	75 - 85 Kpa	180 - 200 Kpa	ISO 1798	self monitoring
Elongation at Break	40%	50%	ISO 1798	self monitoring
Health Aspects	Dust and Fiber Free CFC, HFC, HCFC Free			self monitoring
Indicative Thicknesses & Dimensions	6mm to 25mm & 1m x 1m			self monitoring
Weighted Sound Absorption Coefficient aw	Depending on material thickness		EN ISO 11654	Fraunhofer

Thickness (mm) \ Frequency (Hz)	Frequency (Hz)					
	125	250	500	1000	2000	4000
10	0,01	0,03	0,12	0,36	0,7	0,76
15	0,03	0,08	0,3	0,74	1	0,89
20	0,03	0,12	0,45	0,77	0,75	0,76
25	0,05	0,21	0,61	1,02	0,97	0,99
50	0,15	0,53	0,71	0,73	0,77	0,76
Thickness	10mm	15mm	20mm	25mm	50mm	
aw <sup>2</sup>	0,20(H)	0,3(MH)	0,40(MH)	0,50(MH)	0,75	
Class	E	D	D	D	C	
NRC	0,3	0,55	0,6	0,7	0,75	

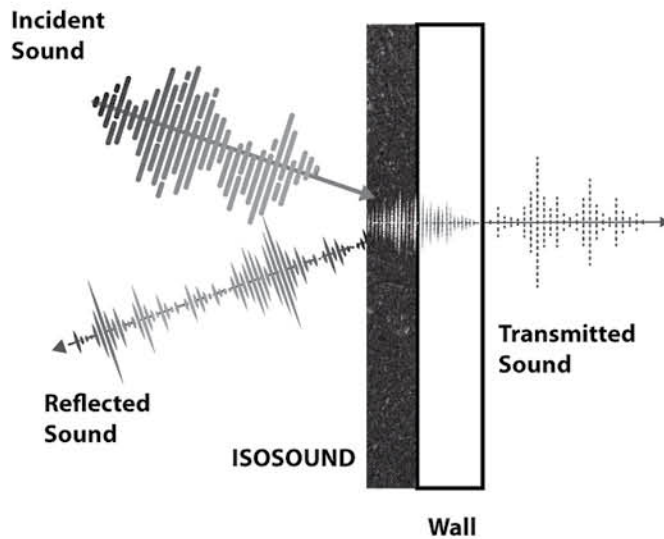
The mentioned values are these which have been measured in our laboratory, under typical conditions. They can be modified without prior notice. You are kindly requested to assert their validity before any special use.

The technical information on ISOSOUND products continues on the next page. →

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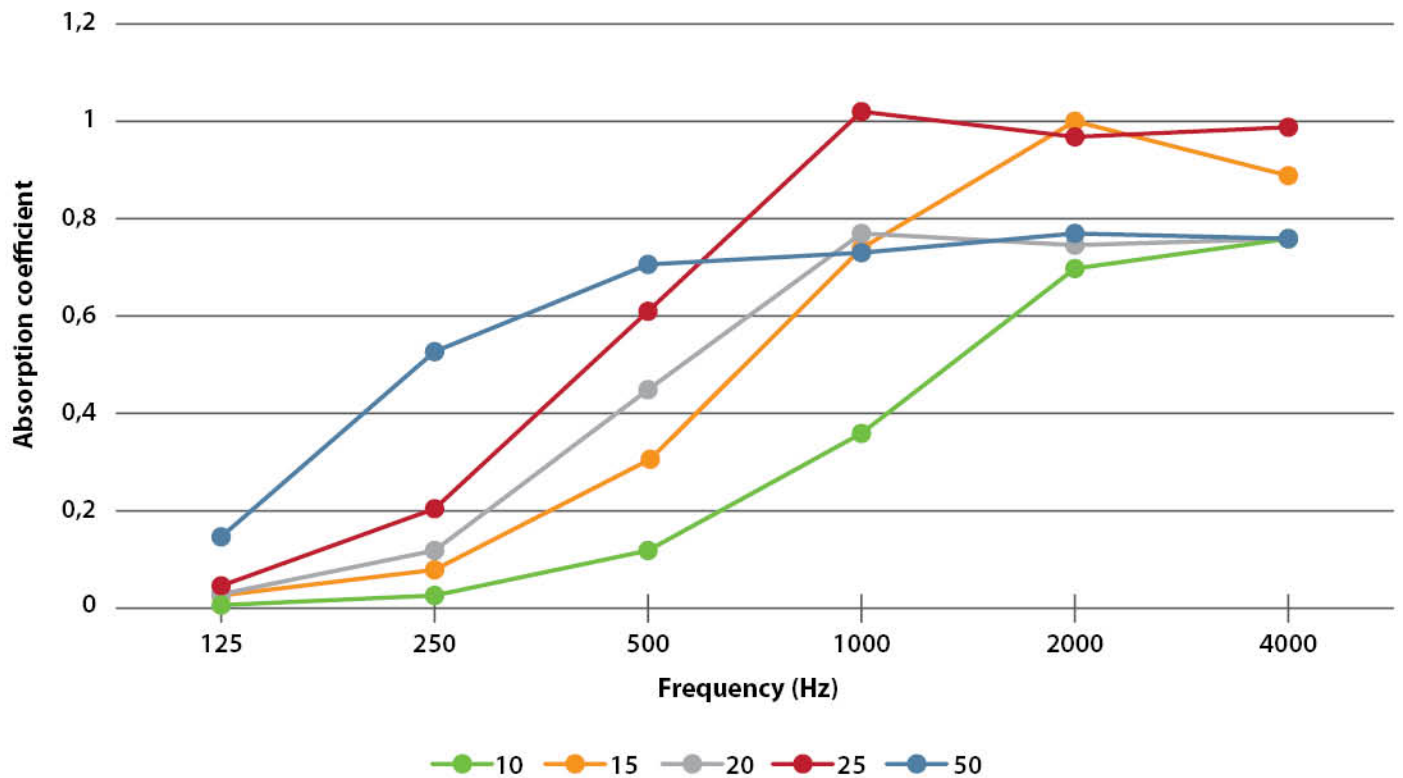
# ISOSOUND®

## Sound Absorption



## Sound Absorption

Absorption coefficient acc. to EN 354 for ISOSOUND



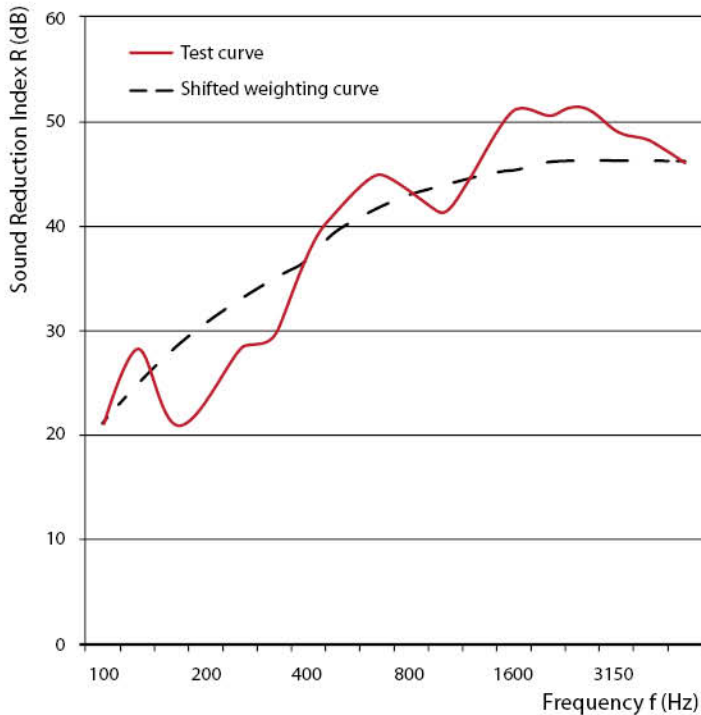
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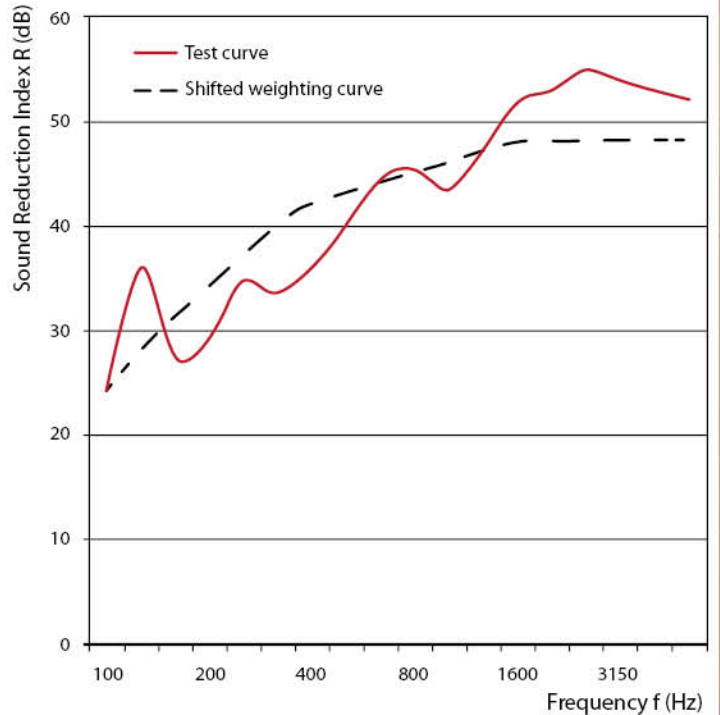
# ISOSOUND®

Sound Reduction (Test Reports from Aristotle University of Thessaloniki)

150 kgr/m<sup>3</sup> (50mm)



250 kgr/m<sup>3</sup> (50mm)



# ISOPIPE® S.A.

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